

## **AMENDMENTS**

Please make the following changes to the specification:

- Delete the current title of the invention and change the title to read as follows:  
**“METHOD FOR MAKING A COORDINATED AND COMPLEMENTARY SET OF HOLOGRAMS FOR THE RECORDING AND PROJECTION OF IMAGES IN SUBSTANTIALLY 3-DIMENSIONAL FORMAT”**
- In the ABSTRACT, substitute -- **Method for making a coordinated and complementary set of** -- for **“Methods of producing”**
- On page 1, paragraph [0005], substitute -- **method for making a coordinated and complementary set of** -- for **“methods of preparing”**
- On page 1, insert the following paragraph between paragraph [0007] and [0008]:  
**-- The system described in patent ‘562 is an integrated optical system that produces a magnified 3-dimensional image of an original 3-dimensional scene via the principle of wavefront reconstruction. The input to this integrated optical system is the optical wavefront emanating from the original 3-dimensional scene. The output from this integrated optical system is the wavefront of the magnified 3-dimensional image. The integrated optical system is comprised of two main components or active optical systems. The first component or first active optical system accepts the optical wavefront from the original scene as input, transforms said input into a plurality of 2-dimensional elemental images arranged as a 2-dimensional matrix. The output of the first component or first active optical system is a magnified 2-dimensional image of said 2-dimensional matrix. The**

output of the first component or first active optical system becomes the input to the second component or second active optical system. This second component or second active optical system then transforms said magnified 2-dimensional input image and reconstructs a magnified 3-dimensional image as its output. The optical wavefront emanating as output from said second component or second active optical system is the same as though it would have emanated from the magnified 3-dimensional scene were said magnified 3-dimensional scene to physically exist. The first active optical system may or may not produce a permanent or semi-permanent recording of the original 3-dimensional scene. patent '562 further divides said first and second components into sub-components, and, in some embodiments, the sub-components thereof are further divided into sub-components. Among the sub-components of said first component, patent '562 refers to one sub-component as a "camera" and to another sub-component as a "projector". Furthermore, patent '562 often refers to said second component as a "screen." --

- In the future, unless contraindicated by the Examiner, as a reference for further replies to Office Actions, applicant will refer to the above inserted paragraph as paragraph [0007.5].
- On page 1, paragraph [0008], first sentence: substitute -- **projector, and screen** -- for **"and projector"**
- On page 1, paragraph [0008], insert the following sentence between the first and second sentences:

-- In these embodiments, some or all of said elements may be holograms. --

- On page 1, paragraph [0009], substitute -- a method -- for “methods”
- On page 1, paragraph [0009], substitute -- the coordinated and complementary set of -- for “various”
- On page 1, paragraph [0009], substitute -- comprising the -- for “used as”
- On page 1, paragraph [0009], insert -- Various embodiments of said method are presented herein. -- after the first sentence.
- On page 1, paragraph [0010], substitute -- METHOD FOR MAKING A COORDINATED AND COMPLEMENTARY SET OF HOLOGRAMS FOR THE RECORDING AND PROJECTION OF IMAGES IN SUBSTANTIALLY 3-DIMENSIONAL FORMAT -- for “METHODS OF PREPARING HOLOGRAMS”
- On page 1, paragraph [0010], substitute -- embodiments of a method -- for “method” after the word “comprising”

Please amend the claims as follows:

- Claim 1 (amended): A method [of preparing a hologram] for making a coordinated and complementary set of holograms to be used in a system for recording and projection of images in substantially 3-dimensional format, said method comprising the steps of:

producing the reference beam by passing diffuse coherent light from a laser through the first active optical system containing a plurality of image focusing means therein; and